

**Amendments to the Specification:**

Please replace paragraph [0019] with the following amended paragraph:

[0019] Advantageously, this integrated system enables fast modulation of parameters, namely the frequency and power of the radio frequency signal. The system can easily be automated and can be quickly externally controlled ~~from outside~~ without needing to modify operation of the electron beam.

Please replace paragraph [0027] with the following amended paragraph:

[0027] The mobile part comprises:

- at least one lead screw 4,
- nuts 5 installed on the lead screw 4,
- a set of rods 6 and a set of rings (for example four rings A, B, C, D), each rod 6 firmly fixing a nut to a ring, the rings being installed on the inside of the wall 3 of the tube,
- electrical contacts 2 (FIG. 3A) between the rings.

Please replace paragraph [0032] with the following amended paragraph:

[0032] Let  $L(AB)$  be the distance between the rings A and B,  $L(BC)$  be the distance between the rings B and C and  $L(CD)$  be the distance between the rings C and D as best shown in FIG. 3A.